

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P580674

Luminaire Tested: **HVSL8-2-LD4-1LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL8-2-LD4-1LO-50-UNV-O-EDD  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

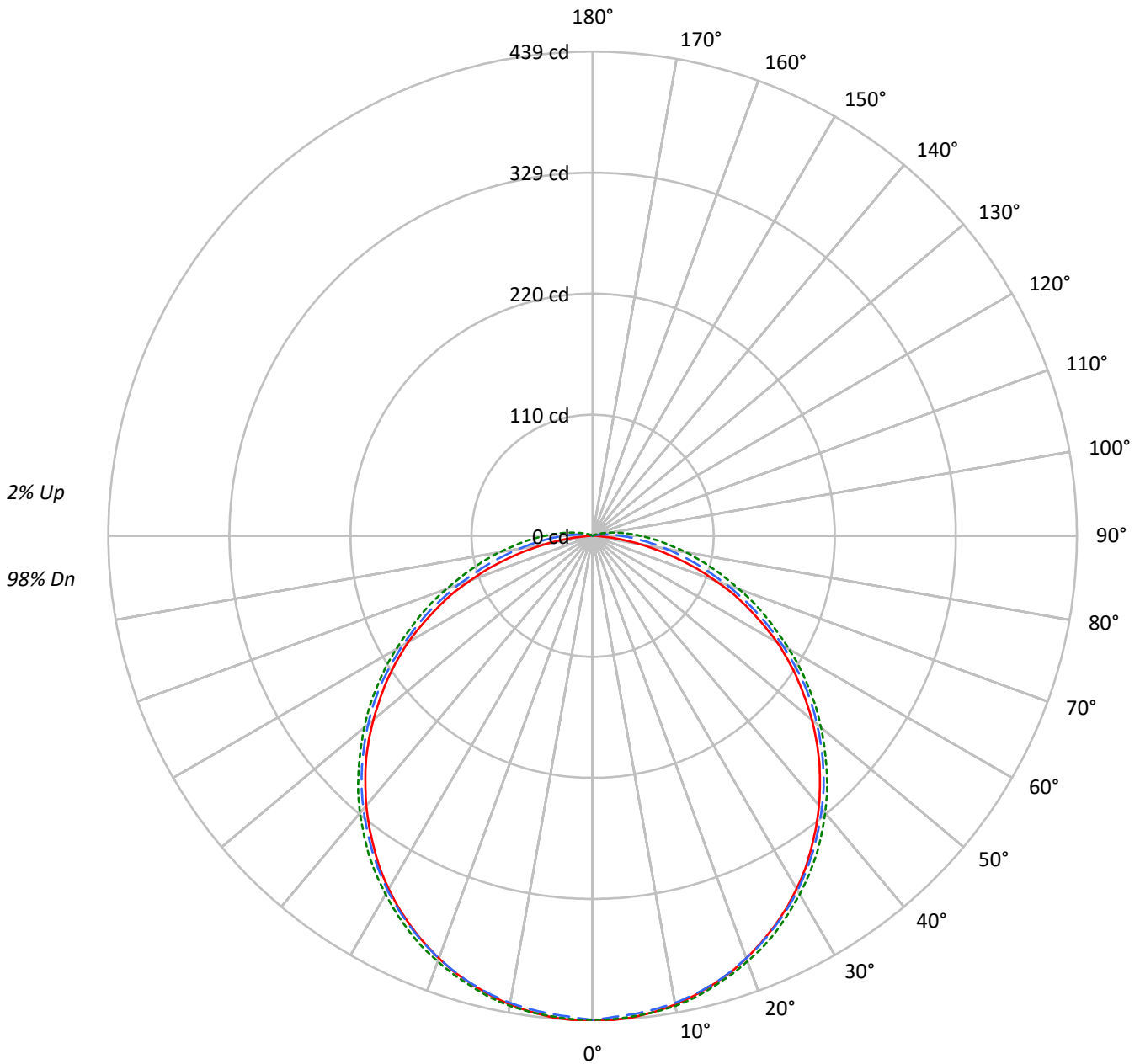
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1326.9 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 11.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P580674

CATALOG NUMBER: HVSL8-2-LD4-1LO-50-UNV-O-EDD

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98																			
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81																			
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	67																			
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56																			
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50	47																			
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	32																			
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28																			
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25																			
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3543	3543	3543
5°	3524	3455	3467
10°	3487	3385	3398
15°	3444	3309	3315
20°	3399	3224	3233
25°	3347	3139	3151
30°	3289	3047	3058
35°	3218	2949	2965
40°	3144	2844	2857
45°	3064	2732	2740
50°	2963	2603	2614
55°	2854	2462	2477
60°	2724	2283	2315
65°	2526	2082	2155
70°	2253	1848	1969
75°	1877	1593	1799
80°	1345	1343	1646
85°	650	1088	1498



TEST NUMBER: P580674

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.5	3.1
10°-20°	119.1	9.0
20°-30°	180.8	13.6
30°-40°	218.6	16.5
40°-50°	228.1	17.2
50°-60°	208.5	15.7
60°-70°	162.6	12.3
70°-80°	101.7	7.7
80°-90°	46.2	3.5
90°-100°	15.5	1.2
100°-110°	3.9	0.3
110°-120°	0.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	341.4	25.7
0°-40°	560.0	42.2
0°-60°	996.6	75.1
0°-90°	1307.0	98.5
90°-120°	19.9	1.5
90°-150°	19.9	1.5
90°-180°	20.0	1.5
0°-180°	1326.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	439	439	439	439	439	
5°	438	437	435	437	437	42
15°	421	422	421	423	423	119
25°	390	391	391	394	395	180
35°	346	347	349	352	354	216
45°	291	293	296	299	300	224
55°	227	230	234	237	239	203
65°	156	159	164	171	173	154
75°	79	84	96	108	112	84
85°	14	25	43	57	62	17
90°	0	9	26	38	43	1
95°	0	2	13	24	28	0
105°	0	0	2	6	9	0
115°	0	0	0	1	2	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P580674

CATALOG NUMBER: HVSL8-2-LD4-1LO-50-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	438.9	438.9	438.9	438.9	438.9
2.5°	439.4	438.8	436.8	438.8	438.7
5°	438.0	437.1	435.2	437.2	437.2
7.5°	435.1	434.8	433.0	435.4	435.4
10°	431.6	431.5	430.1	432.7	432.8
12.5°	426.9	427.3	426.0	428.4	428.8
15°	421.3	422.0	420.9	423.3	423.2
17.5°	415.2	415.6	414.8	417.5	417.4
20°	407.6	408.2	407.5	410.3	410.6
22.5°	399.3	400.0	399.9	402.8	403.6
25°	390.4	390.7	391.1	394.4	395.0
27.5°	380.5	381.1	381.8	384.8	385.4
30°	369.8	370.6	371.4	374.5	375.4
32.5°	358.4	359.2	360.3	364.3	364.7
35°	345.6	347.1	348.6	352.1	353.5
37.5°	332.7	334.7	336.0	339.8	340.9
40°	319.2	321.2	323.3	327.3	328.0
42.5°	305.0	307.3	309.9	313.4	314.6
45°	290.7	293.3	295.7	298.6	300.0
47.5°	275.3	277.9	280.8	284.1	285.0
50°	259.4	262.4	265.5	268.6	270.2
52.5°	243.0	246.7	250.2	253.5	255.0
55°	226.9	229.6	233.8	237.2	238.8
57.5°	210.1	212.4	216.2	221.8	222.7
60°	193.1	195.1	199.1	203.6	205.5
62.5°	174.2	177.0	181.2	187.0	188.6
65°	155.9	158.6	164.1	170.6	173.3
67.5°	138.2	139.2	146.2	153.0	157.4
70°	117.3	120.8	129.0	137.4	140.7
72.5°	99.3	102.8	111.8	121.7	125.8
75°	78.9	83.8	96.0	107.5	111.5
77.5°	61.0	66.4	81.5	93.1	97.8
80°	42.6	51.0	67.5	80.5	85.6
82.5°	26.8	37.1	54.7	68.4	72.8
85°	13.7	25.2	43.4	57.3	62.4
87.5°	3.6	16.3	33.7	47.1	52.2
90°	0.1	9.4	25.6	38.4	43.0
92.5°	0.1	5.3	19.0	30.5	35.3
95°	0.1	2.5	13.2	24.0	27.7
97.5°	0.1	1.0	9.1	18.1	21.8
100°	0.1	0.5	5.8	13.1	16.3
102.5°	0.2	0.3	3.6	9.4	12.0
105°	0.2	0.3	2.2	6.4	8.6



TEST NUMBER: P580674

CATALOG NUMBER: HVSL8-2-LD4-1LO-50-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.8	2.6
115°	0.3	0.3	0.4	1.1	1.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	0.2	0.3	1.2	4.3	5.9
110°	0.3	0.3	0.7	2.7	3.9



(END OF REPORT)